

I. Amendments to the Claims:

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A system for allocating a power budget between at least two different communication channels, one of which comprises a voice channel and the other one of which comprises a data channel, comprising:

at least two receiving-stations ~~being, in the aggregate,~~ which between them are configured to receive all of the at least two different communication channels; and,

a transmitting-station for transmitting each of the channels to at least one of the receiving-stations using a portion of the power budget, the portions being allocated by said transmitting-station such that the power budget is substantially consumed,

wherein said transmitting-station is configured such that the allocation of power to the voice channel for a subsequent time period is based on the actual power consumed by the voice channel for a known time period, and

wherein the known time period comprises a current time period and the subsequent time period immediately follows the current time period.

2. (Previously Presented) The system according to claim 1, wherein the transmitting-station comprises a base station and the receiving-stations respectively comprise subscriber stations.

3. (Previously Presented) The system according to claim 2, wherein one of the subscriber stations is configured to receive the one channel, and another of the subscriber stations is configured to receive the other one of the channels.

4. (Previously Presented) The system according to claim 2, wherein one of the subscriber stations is configured to receive the at least two communication channels.

5. (Previously Presented) The system according to claim 1, wherein the transmitting-station comprises a subscriber station, and wherein the receiving-station comprises a base station.

Claims 6-9 (Cancelled).

10. (Currently Amended) The system according to ~~claim 9~~ claim 1, wherein each of the time periods is from about one millisecond to about forty milliseconds.

11. (Previously Presented) The system according to claim 10, wherein each of the time periods is from about two milliseconds to about thirty milliseconds.

12. (Previously Presented) The system according to claim 10, wherein each of the time periods is from about five milliseconds to about twenty milliseconds.

13. (Previously Presented) The system according to claim 10, wherein each of the time periods is from about seven milliseconds to about fifteen milliseconds.

14. (Previously Presented) The system according to claim 10, wherein each of the time periods is about ten milliseconds.

15. (Currently Amended) The system according to ~~claim 8~~ claim 1, wherein said transmitting-station is configured such that a remaining portion of the power budget is allocated to a data channel for a the subsequent time period based on the amount of power that ~~was~~ is not allocated to the voice channel for that subsequent time period.

16. (Currently Amended) The system according to claim 1, wherein ~~the amount of power that was actually consumed by one of the at least one communication channels during a known time period is allocated by said transmitting station to that communication channel for a future time period and~~ the remainder of the power budget that is not allocated to the voice channel is allocated by said transmitting-station to another of the communication channels.

Claim 17 (Cancelled).

18. (Currently Amended) ~~The~~ A method according to claim 17 of allocating a power budget between communication channels, at least one of which is a voice channel, comprising the steps of:

predicting power requirements for the at least one voice communication channel during a future time period; and

allocating a portion of the power budget to each of the other communication channels based on the prediction,

wherein the predicting step includes determining actual power consumption for one of the at least one voice communication channel during a current time period, and wherein the allocating step includes allocating a portion equal to the actual power consumption to the at least one voice communication channel and allocating a remaining portion to a remainder of the communication channels.

19. (Previously Presented) A method of allocating a power budget between communication channels, at least one of which comprises a voice channel, comprising the steps of:

- (i) for an initial time period, allocating the power budget between the communication channels over a wireless link according to a predefined allocation;
- (ii) for a current time period, establishing the communication channels according to the allocation;
- (iii) for the current time period, determining actual power consumption of the at least one voice channel;
- (iv) for a future time period, allocating at least an equivalent amount of power as the actual power consumption determined at step (iii) to the at least voice channel;
- (v) for the future time period, allocating a remaining amount of power to a remainder of the channels, the remaining amount being an amount that was unallocated to the at least one voice channel; and,
- (vi) repeating steps (iii) – (v) for the future time periods.

20. (Currently Amended) A system for allocating a power budget between at least two channels comprising:

a first subscriber station operable to receive at least a voice channel;

an additional subscriber station operable to receive at least a data channel;

a base station for transmitting the voice channel to the first subscriber-station using a portion of the power budget and transmitting the data channel to the additional subscriber station using a remainder of the power budget, the portion being allocated by said base station to the voice channel for a current time period based on an actual amount of power consumed during ~~a previous~~ the immediately preceding time period by the voice channel.

21. (Previously Presented) A subscriber station comprising:

a receiver for a signaling channel, a voice channel and a data channel;

a processor connected to the receiver and configured to adjust demodulation and forward error correction rates of packets received over the voice channel and the data channel during successive time periods, the adjusting based on instructions received over the signaling channel that correspond to power allocations made by a base station transmitting the channels.

22. (Currently Amended) A base station comprising:

a gateway for receiving voice packets and data packets from a network;

a processing unit for allocating a portion of a power budget for transmitting voice packets during a current time period based on actual power consumed for transmitting voice

packets during ~~a previous~~ the immediately preceding time period, the processing unit being configured to allocate a remainder of the power budget for transmitting data packets during the current time period; and

a transmitter for transmitting the packets to intended subscriber stations via a downlink according to the allocations.